SGPOE10xx-1x0

Power-over-Ethernet PSE Media Converter

Enables enterprises to provide power to network devices over the existing CAT5 data connection.

Transition's AC powered PoE media converters combine data received over a fiber optic link with -48VDC power; providing power to Data Terminal Equipment (DTE) Power Devices (PD) over unshielded twisted pair cable. The PoE converters are Power Sourcing Equipment (PSE) and are fully compatible with Powered Devices (PD) that comply with the IEEE802.3af™: 2003 standard. The converters also include a PD signature sensing and power monitoring features per the IEEE 802.3af standard. Other features include Over-Current Protection, Under-Current Detection and Fault Protection Input.

This feature enhanced model offers the ability to enable/disable many of the features as well as force port capabilities (see switch section under specifications to the right).

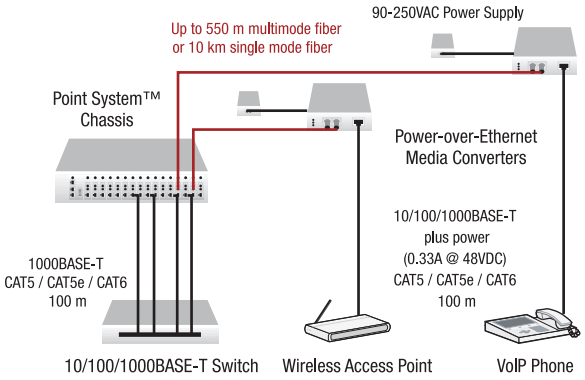
In addition, with the PSE/LPT switch enabled, a loss of Fiber RX will disable PSE power output on the UTP port for 2 seconds to allow remote device to re-initialize. Also known as Powered Device Reset.

The PoE converter is fully compatible with devices that comply with the IEEE802.3af standard as well as select legacy PD's. The PoE converter is capable of inserting power on data mode A or mode B pairs of the MDI.

Features

- SFP ports support either 100Base or 1000Base fiber
- Redundant SFP port option
- IEEE802.3af Power-over-Ethernet Compatible
- 48 VDC PSE Output Voltage
- Mode A or Mode B Pairs Power Insertion
- PD Detection Signature
- PoE Legacy Detect for non-IEEE 802.3af compatible Powered Devices (PD)
- Over-Current Protection & Under-Current Detection
- Powered Device Reset
- Switch selectable features and port settings
- Minimum Load Sensing
- Fault Protection Input
- Auto-Negotiation
- AutoCross™
- Link Pass Through available on SGPOE10xx-100
- Automatic Link Restoration
- External AC power supply

Power over Cat5 to Remotely Located Devices



Specifications

Standards	IEEE Std. 802.3™, IEEE Std. 802.3af
Switches	**SW1:** Auto-Negotiation TP On/Off **SW2:** Speed TP: Force 10Mbps or 100Mbps (SW1 off) **SW3:** Duplex TP: Force Half or Full Duplex (SW1 off) **SW4:** Duplex Fiber: Half or Full Duplex **SW5:** AutoCross™ On/Off **SW6:** PSE On/Off **SW7:** PSE/LPT on/off **SW8:** Unused
Max Packet Size	1632 bytes untagged 1628 bytes tagged
MAC Addresses	8K
Dimensions	**Width:** 4.4" [112 mm] **Depth:** 5.1" [129 mm] **Height:** 1.0" [25 mm]
Power	90 – 250VAC external power supply External AC/DC required; 48vdc 0.67A
Power Consumption	20W max.
Operating Temperature	0 – 40°C [32° – 104°F]
Storage Temperature	-25° to +85°C [-13° to +185°F]
Environment	5% – 95% humidity non-condensing; 0 – 10,000 ft. altitude
Shipping Weight	2 lbs. [0.90 kg]
Compliance	EN55022:1994+A1:1996+A2:1997 Class A; FCC Part 15 Subpart B; UL 1950
Warranty	Lifetime

Ordering Info

SGPOE1013-100
10/100/1000BASE-T (RJ-45)
[100 m/328 ft.]
to 1000BASE-SX 850nm MM (SC)
[62.5/125µm: 220 m/722 ft.]
Link Budget: 8.0 dB
[50/125µm: 550 m/1804 ft.]
Link Budget: 8.0 dB

SGPOE1014-100
10/100/1000BASE-T (RJ-45)
[100 m/328 ft.]
to 1000BASE-LX 1310nm SM (SC)
[10 km/6.2 mi.] Link Budget: 7.0 dB

SGPOE1040-100
10/100/1000BASE-T (RJ-45)
[100 m/328 ft.]
to 100/1000BASE-X SFP Slot (empty)

SGPOE1040-110
10/100/1000BASE-T (RJ-45)
[100 m/328 ft.]
to (2) 100/1000BASE-X SFP slots (empty)

Optional Accessories

(sold separately)

SFP Modules

Mounting Options:

WMBD
DIN Rail Mount Bracket 5.0" [127 mm]

WMBL
Wall Mount Bracket 4.0" [102 mm]

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